



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,478	06/26/2003	Sandeep Bhatia	14251US02	5641

23446 7590 04/24/2007
MCANDREWS HELD & MALLOY, LTD
500 WEST MADISON STREET
SUITE 3400
CHICAGO, IL 60661

EXAMINER

RAO, ANAND SHASHIKANT

ART UNIT PAPER NUMBER

2621

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/606,478

Applicant(s)

BHATIA ET AL.

Examiner

Andy S. Rao

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 and 18 is/are pending in the application.
- 4a) Of the above claim(s) 1 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 and 18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's arguments with respect to claims 1-16 and 18 as filed in have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alvarez et al., (US 2006/01933383 A1 hereinafter referred to as "Alvarez") in view of Vines.

Alvarez a system for displaying images on a display (Alvarez: figures 1-5), said system comprising: a decoder (Alvarez: figure 3, element 300; paragraphs [0026], [0027], 1[0032], [0040], [0043]; [0061], [0062]) for decoding encoded images and parameters associated with the images, thereby resulting in decoded images and decoded parameters associated with the decoded images; image buffers (Alvarez: figure 1, element 110, 16; paragraphs [0026], [0051], [0057]) for storing decode images; parameter buffers (Alvarez: figure 3, element 316; paragraphs [0040], [0043], [0061], [0062]) for storing the decoded parameters associated with the images; and a display engine for receiving the decoded parameters from the parameter buffers and providing the decoded images for display (Alvarez: figure 1, elements 118, 120; paragraphs [0026], [0039], [0040]), as in claim 1. However, Alvarez fails to disclose wherein the decoded

Art Unit: 2621

parameters are associated with the images include at least one parameters selected from a group consisting of presentation time stamp, top field first, and repeat first field, and using the decoded parameters stored in the parameters buffers for providing the decoded images for display, as in the claim. Vines discloses MPEG-2 transport stream processing using stored image associated parameters stored in a decoder for providing decoded images for display (Vines: figures 1A-1E), wherein the decoded parameters are associated with the images include at least one parameters selected from a group consisting of presentation time stamp (Vines: column 4, lines 17-30), top field first and repeat first field (Vines: column 5, lines 1-12) in order to allow for seamless transitions between multiple transport streams (Vines: column 2, lines 45-55). Accordingly, given the Vines teaching, it would have been obvious for one of ordinary skill in the art to incorporate Vines' teaching of using stored image associated parameters in a decoder into the Alvarez decoder in order to allow for seamless transitions in transport streams. The Alvarez decoder, now incorporating the Vines' teaching of using stored image associated parameters in a decoder, has all of the features of claim 1:

Regarding claims 2-9, the Alvarez decoder, now incorporating the Vines' teaching of using stored image associated parameters in a decoder, has wherein the encoded images and parameters associated with the images form portions of data packets, wherein the data packets comprises headers, wherein the headers comprise the parameters, picture layer headers, sequence layer headers, wherein the data packets are associated with first headers and second headers, wherein the first headers comprise a portion of the parameters, and wherein the second headers comprise another portion of the parameters, wherein the first headers comprise picture layer parameters and wherein the second headers comprise sequence layer headers (Alvarez:

Art Unit: 2621

paragraphs [0029], [0032], [0040], [0043], [0061]); wherein the encoded images comprise compressed images (Alvarez: paragraphs [0026], [0027]); and wherein the parameters are encoded with a variable length code, and wherein the decoder decodes the variable length code (Alvarez: figure 3, element 300; paragraph [0034]), as in the claims.

Alvarez discloses a circuit for displaying images on a display (Alvarez: figures 1-5), said circuit comprising: a decoder (Alvarez: figure 3, element 300; paragraphs [0026], [0027], 1[0032], [0040], [0043], [0061], [0062]); image buffers (Alvarez: figure 1, element 110, 16; paragraphs [0026], [0051], [0057]) connected to the decoder and configured to store images decoded by the decoder; parameter buffers (Alvarez: figure 3, element 316; paragraphs [0040], [0043], [0061], [0062]) connected to the decoder and configured to store the decoded parameters associated with the images and decoded by the decoder; and a display engine connected to the image and parameter buffers and configured to receive the decoded parameters from the parameter buffers and providing the decoded images for display (Alvarez: figure 1, elements 118, 120; paragraphs [0026], [0039], [0040]), as in claim 10. However, Alvarez fails to disclose using the decoded parameters stored in the parameters buffers for providing the decoded images for display, as in the claim. Vines discloses MPEG-2 transport stream processing using stored image associated parameters stored in a decoder for providing decoded images for display (Vines: figures 1A-1E), in order to allow for seamless transitions between multiple transport streams (Vines: column 2, lines 45-55). Accordingly, given the Vines teaching, it would have been obvious for one of ordinary skill in the art to incorporate Vines' teaching of using stored image associated parameters in a decoder into the Alvarez decoder in order to allow for seamless

Art Unit: 2621

transitions in transport streams. The Alvarez decoder, now incorporating the Vines' teaching of using stored image associated parameters in a decoder, has all of the features of claim 10.

Regarding claims 11-16 and 18, the Alvarez decoder, now incorporating the Vines' teaching of using stored image associated parameters in a decoder, has wherein the encoded images and parameters associated with the images form portions of data packets, wherein the data packets comprises headers, wherein the headers comprise the parameters, picture layer headers, sequence layer headers, wherein the data packets are associated with first headers and second headers, wherein the first headers comprise a portion of the parameters, and wherein the second headers comprise another portion of the parameters, wherein the first headers comprise picture layer parameters and wherein the second headers comprise sequence layer headers (Alvarez: paragraphs [0029], [0032], [0040], [0043], [0061]); wherein the encoded images comprise compressed images (Alvarez: paragraphs [0026], [0027]); and wherein the parameters are encoded with a variable length code, and wherein the decoder decodes the variable length code (Alvarez: figure 3, element 300; paragraph [0034]), as in the claims.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after

Art Unit: 2621

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

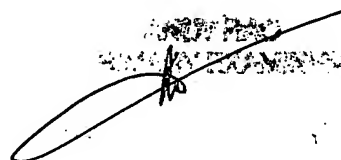
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (571)-272-7337. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571)-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andy S. Rao
Primary Examiner
Art Unit 2621

asr



Application/Control Number: 10/606,478

Page 7

Art Unit: 2621

April 20, 2007